

compressing and releasing the flexible membrane between the projection and the backstop to thereby move fluid from the inlet portion to the exit portion as to pump the fluid from the reservoir; and maintaining the fluid in the disposable assembly so that the fluid is not in contact with the reusable assembly.

18. The method of claim **17** wherein the releasing generates negative pressure in the fluid channel.

19. The method of claim **18** wherein the flexible membrane is resilient and the negative pressure is generated by the flexible member recoiling.

20. The method of claim **17** wherein the projection is a rotatable member with plurality of projections and the step of compressing and releasing is rotating the rotatable member whereby the projections contact the flexible member each in turn.

21. The method of claim **17** wherein the inlet portion has an inlet valve, and the exit portion has an exit valve, and the method further comprises:

opening the inlet valve and closing the exit valve when releasing the flexible membrane.

22. The method of claim **17** wherein the inlet portion has an inlet valve, and the exit portion has an exit valve, and the method further comprises;

opening the exit valve and closing the inlet valve when compressing the flexible member.

23. The method of claim **22** wherein the compressing the flexible member pressures the fluid and the opening of the exit valve is by the fluid pressure.

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